

Summary of Safety and Effectiveness

OCT 13 2006

Submitter: Zimmer, Inc.
P.O. Box 708
Warsaw, IN 46581-0708

Contact Person: Anthony Francalancia
Senior Associate, Regulatory Affairs
Telephone: (574) 372-4570
Fax: (574) 372-4605

Date: September 14, 2006

Trade Name: *NexGen® Complete Knee Solution Legacy®*
Posterior Stabilized (LPS)-Flex Fixed Bearing
Tivanium® Ti-6Al-4V Alloy Femoral Components

Common Name: LPS-Flex Fixed Bearing Tivanium Femoral Components

Classification Name: Knee joint patellofemorotibial
polyethylene/metal/polyethylene semiconstrained
cemented total knee prosthesis

Classification Reference: 21 CFR § 888.3560

Predicate Device: *NexGen® Complete Knee Solution Legacy®*
Posterior Stabilized (LPS)-Flex Fixed Bearing
Femoral and Articular Surface Components,
manufactured by Zimmer, Inc., K991581, cleared
July 30, 1999

Device Description: The LPS-Flex Fixed Bearing Knee is a
semiconstrained, condylar system for use without
the cruciate ligaments when additional stability is
required to prevent anterior subluxation of the
femur relative to the tibia in flexion.

Intended Use: This device is indicated for patients with severe
knee pain and disability due to:

- Rheumatoid arthritis, osteoarthritis, traumatic arthritis, polyarthritis.
- Collagen disorders, and/or avascular necrosis of the femoral condyle.

- Post-traumatic loss of joint configuration, particularly when there is patellofemoral erosion, dysfunction or prior patellectomy.
- Moderate valgus, varus, or flexion deformities.
- The salvage of previously failed surgical attempts or for a knee in which satisfactory stability in flexion cannot be obtained at the time of surgery.

Specific uses with LPS-Flex femorals:

- Provides increased flexion capability for patients who have both the flexibility and desire to increase their flexion range.
- The LPS-Flex femoral, when used with the LPS-Flex articular surfaces, is designed for use with both cruciate ligaments excised and when load bearing ROM is expected to be less than or equal to 155 degrees.

Comparison to Predicate Device:

Except for a change in material and surface hardening processing, the LPS-Flex Fixed Bearing Titanium Femoral Components are identical to the predicate device's femoral components. The modifications do not change the intended use or the fundamental scientific technology. The device is packaged using the same materials and processes.

Performance Data (Non-clinical and/or Clinical):

Non-Clinical Performance and Conclusions:

The results of non-clinical (laboratory) performance testing demonstrate that the device is safe and effective and substantially equivalent to the predicate device.

Clinical Performance and Conclusions:

Clinical data and conclusions were not needed for this device.



DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

Food and Drug Administration
9200 Corporate Boulevard
Rockville MD 20850

Zimmer, Inc.
% Mr. Anthony Francalancia
Senior Associate, Regulatory Affairs
P.O. Box 708
Warsaw, Indiana 46581-0708

OCT 13 2006

Re: K062768

Trade/Device Name: *NexGen*[®] Complete Knee Solution *Legacy*[®] Posterior Stabilized
(LPS)-Flex Fixed Bearing *Tivanium*[®] Ti-6Al-4V Alloy Femoral

Components

Regulation Number: 21 CFR 888.3560

Regulation Name: Knee joint patellofemorotibial polymer/metal/polymer semi-constrained
cemented prosthesis

Regulatory Class: Class II

Product Code: JWH

Dated: September 14, 2006

Received: September 15, 2006

Dear Mr. Francalancia:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

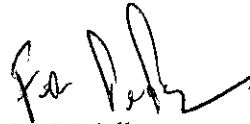
Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

Page 2 – Mr. Anthony Francalancia

This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at (240) 276-0120. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (240) 276-3150 or at its Internet address <http://www.fda.gov/cdrh/industry/support/index.html>.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Mark N. Melkerson", is written over the typed name.

Mark N. Melkerson
Director
Division of General, Restorative
and Neurological Devices
Office of Device Evaluation
Center for Devices and
Radiological Health

Enclosure

Indications for Use

510(k) Number (if known):

K062768

Device Name:

NexGen® Complete Knee Solution Legacy® Posterior Stabilized (LPS)-Flex Fixed Bearing
Titanium® Ti-6Al-4V Alloy Femoral Components

Indications for Use:

- This device is indicated for patients with severe knee pain and disability due to:
 - Rheumatoid arthritis, osteoarthritis, traumatic arthritis, polyarthritis.
 - Collagen disorders, and/or avascular necrosis of the femoral condyle.
 - Post-traumatic loss of joint configuration, particularly when there is patellofemoral erosion, dysfunction or prior patellectomy
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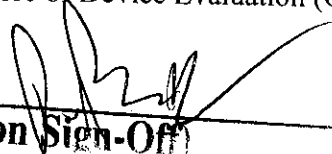
Prescription Use X
(Part 21 CFR 801 Subpart D)

AND/OR

Over-The-Counter Use _____
(21 CFR 807 Subpart C)

(Please do not write below this line – Continue on another page if needed)

Concurrence of CDRH, Office of Device Evaluation (ODE)


(Division Sign-Off)

Division of General, Restorative,
and Neurological Devices

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510(k) Number: K062768